Code Documentation

Packages imported

* import pandas as pd- allows importing of various files
* import seaborn as sb- for statistical graphics
* import matplotlib.pyplot as plt- allows for plotting

X = pd.read\_csv("gapminder-FiveYearData.txt", delimiter= ",")……………… line1

X.to\_csv ("gapminder-FiveYearData.csv")……………. line2

Lines 1 and 2 read the txt file ‘gapminder-FiveYearData.txt’ and convert it into csv file ‘gapminder-FiveYearData.csv’.

Y = pd.read\_csv("gapminder-FiveYearData.csv")………….. line3

Line 3 imports/read the csv file ‘gapminder-FiveYearData.csv’ into the python code.

y= pd.pivot\_table (Y, index="continent", columns="year", values="lifeExp")……. line4

Line 4 which contains parameters ‘Y’ is the dataframe, in this case the csv file, index ‘continent’ which is the column for grouping, columns ‘year’ for better display of the table, and values ‘lifeExp’ which is being aggregated, creates a pivot table. The aggregation value is by default average/mean.

heat\_map = sb.heatmap(y, cmap="YlGnBu", annot=True)………… line5

Line 5 creates a heatmap by using the heatmap function of the seaborn module; y here is the pivot table, cmap attribute to change the color of the heatmap and annot attribute to add text, in this case the value of lifeExp, on each cells of the heatmap.

plt.show……. line6

Line 6 displays the output.